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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/182,911	10/30/1998	BARRY G. WILKS	0100.9800830 2532	
	7590 08/28/2003			
JOHN R. GARRETT MARKISON & RECKAMP, P.C. P.O. BOX 06229			EXAMINER	
			LESPERANCE, JEAN E	
WACKER DRIVE CHICAGO,, IL 60606-0229			ART UNIT	PAPER NUMBER
,,			2674	2
		DATE MAILED: 08/28/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>				
	Application No.	Applicant(s)				
Office Action Summan	09/182,911	WILKS, BARRY G.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication app	Jean E Lesperance	2674				
Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply the If NO period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be within the statutory minimum of thirty (30) dill apply and will expire SIX (6) MONTHS fro cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>07 J</u>	<u>uly 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.					
closed in accordance with the practice under <i>l</i> Disposition of Claims	<i>:x рапе Quayle</i> , 1935 С.D. 11,	453 O.G. 213.				
4) Claim(s) 4-6,8,10-18,20-22,24-26,29,35-37,39	and 41-48 is/are pending in the	e application.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>13-18 and 29</u> is/are allowed.	⊠ Claim(s) <u>13-18 and 29</u> is/are allowed.					
6)⊠ Claim(s) <u>4-6,8,10-12,20-22,24-26,35-37,39 and 41-48</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or Application Papers	election requirement.					
9) The specification is objected to by the Examiner	•					
10)⊠ The drawing(s) filed on 30 October 1998 is/are:	a)⊠ accepted or b)☐ objected to	by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in rep						
12) ☐ The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119	(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prioriapplication from the International BurSee the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).	· ·				
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119	(e) (to a provisional application).				
 a) The translation of the foreign language provides 15) Acknowledgment is made of a claim for domestic 	• •					
Attachment(s)	•					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ry (PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and Trademark Office TO-326 (Rev. 04-01) Office Acti	on Summary	Part of Paper No. 31				

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DETAILED ACTION

- 1. Claims 4-6, 8, 10-18, 20-22, 24-26, 29, 35-37, 39, 41-48 are presented for examination.
- 2. The indicated allowability of claims 4-6, 8, 10-12, 20-22, 24-26, 35-37, 39, 41-48 are withdrawn and another office action is provided below.

Claim Rejections - 35 U.S.C. § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-6, 8, 10-12, 20-22, 24-26, 35-37, 39, 41-48 are rejected under 35 U.S.C. 102 (b) as being unpatentable over U.S. Patent # 4,990,902 ("Zenda") in view of U.S. Patent # 6,067,071 ("Kotha et al.").

As for claims 4, 20, and 42, Zenda teaches a CRTC 13 receives a display timing signal parameter on system bus 3 in synchronism with display timing set command A supplied from CPU 1 through AND gate 15 (column 4, lines 11-14) corresponding to a) receiving capability parameters regarding a first display of the multiple displays; the display timing signal generating parameters can be changed in correspondence with different display modes resolutions (column 2,

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lines 66-68) corresponding to b) substituting selected display capabilities for the received capability parameters; and display resolution selecting means selects a display resolution (column 8, lines 43-44) corresponding to c) providing the selected display capabilities to an operating system; and hen the power switch of the system is turned on, CPU 1 executes the display area control processing routine in BIOS 21 (column 4, lines 46-48) corresponding to wherein step (a) further comprises receiving the capability parameters in accordance with a system start-up. Accordingly, Zenda teaches all the claimed limitations as recited in claims 4, 5, and 20 with the exception of providing the capability parameters comprise display resolution and display pixel depth.

However, Kotha et al. teach two video signals having different refresh rates and resolutions (column 5, lines 25-26) corresponding to a display refresh rate.

It would have been obvious to utilize video signals with different refresh rate as taught by Kotha et al. in the display area control system disclosed by Zenda because this would allow the display controller to output at least one of a plurality of different graphics display resolutions to a fixed resolution panel display.

As for claims 6, 22, 26, 37, and 43, Zenda teaches The display timing parameters must correspondingly be changed when a display screen is changed (column 3, lines 11 and 12) corresponding to receiving the capability parameters in response to a monitor change process.

As for claims 8, 24, and 39, Zenda teaches a CPU Fig.1 (1) corresponding to a processing module; and ROM Fig.1 (5) corresponding to memory operably coupled to the processing

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module, wherein the memory includes operational instructions that cause the processing module to a CRTC 13 receives a display timing signal parameter on system bus 3 in synchronism with display timing set command a supplied from CPU 1 through AND gate 15 (column 4, lines 11-14) corresponding to a) receiving capability parameters regarding a first display of the multiple displays; the display timing signal generating parameters can be changed in correspondence with different display modes resolutions (column 2, lines 66-68) corresponding to b) substituting selected display capabilities for the received capability parameters; and display resolution selecting means selects a display resolution (column 8, lines 43-44) corresponding to c) providing the selected display capabilities to an operating system; a display area control system for displaying on a flat panel display apparatus applied data generated by a desired application program, the display apparatus having the capability to display data corresponding to a plurality of different display resolutions (column 7, 8-13) corresponding to operational instructions that cause the processing module to determine the selected display capabilities based on a composite of the display parameters of each multiple displays.

As for claims 10, 12, and 41, Zenda teaches When the power switch of the system is turned on, CPU 1 executes the display area control processing routine in BIOS 21 (column 4, lines 46-48) corresponding the memory further comprises operational instructions that causes the processing module to receive capability parameters in accordance with a system start-up and to monitor change process.

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As for claims 5, 11, 21, 25, and 36, Zenda teaches a display resolution selecting means selects a display resolution (column 8, lines 43-44) corresponding to providing the selected display capabilities to an operating system; a display mode set command is input at keyboard 23 during execution of the application program, CPU 1 supplies display mode set command A to one input terminal of AND gate 15 through system bus 3, and executes the display mode set routine in BIOS 21. If it is determined in step 41 that the display mode is not altered, the flow advances to step 55, and CPU 1 executes initialization including clearing of V-RAM 9 (column 5, lines 4-12) corresponding to identify the capability parameters as primary parameters.

As for claim 35, Kotha et al. teach the controller of the present invention uses a Discrete Time Oscillator (DTO) based clock divider and DCT based polyphase interpolation to upscale graphics display data from a first resolution to the panel resolution (abstract) corresponding to a display with a video graphic card. It is well known in the art to have a graphic display there must exist a video graphic card.

As for claims 44-48, Zenda teaches a display resolution selecting means selects a display resolution which differs from the display resolution corresponding to the designated set of display timing signal generating parameters, and when the predetermined number of picture elements in the horizontal direction of the selected display resolution is smaller than the maximum number of picture elements in the horizontal direction, said control means generates display timing signals so that non-display areas having picture elements which number ½ a difference between the

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predetermined and maximum numbers of picture elements in the horizontal direction are formed on the right and left portions of the physical screen of the flat panel display apparatus (column 8, lines 58-68) corresponding to capability parameters that exceed the display parameters of each of the multiple displays. It means that the selected display capability parameters is twice the display parameters of each of the multiple displays.

Allowable Subject Matter

4. Claims 13-18 and 29 are allowed.

Reasons for Allowance

5. The following is a statement for indicating the allowable subject matter: the claimed invention is directed to a digital storage medium for storing operational instructions to support multiple displays. Claim 13 identifies a uniquely distinct feature "first storage means for storing operational instructions that cause the processing module to receive capability parameters regarding a first display of the multiple displays, wherein the capability parameters comprise display resolution and display pixel depth; second storage means for storing; operational instructions that cause the processing module to substitute selected display capabilities for the capability parameters; and third storage means for storing operational instructions that cause the processing module to provide the selected display capabilities to an operating system".

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The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Kotha et al. teach a system and corresponding method for storing and presenting

image data having a first pixel resolution on a single display having a fixed display resolution. The

display resolution of the single display device is set by developers before implementation and

stored in a control logic thereof. Zenda teaches a pixel area control system having a function of

switching a display mode and inhibiting alteration of the switched display mode in a flat panel

display apparatus is provided. When a screen of the selected display mode is smaller than a

physical screen of the flat panel display apparatus, the screen is displayed at the center of the

physical screen of the plasma display apparatus.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Jean Lesperance whose telephone number is (703) 308-6413. The examiner

can normally be reached on from Monday to Friday between 8:00AM and 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Richard Hjerpe, can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

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(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance

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Date 8-9-2003

RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600